

| | | | | | |
|---|---------------|--|--|--------------------------|-------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) (Use several sheets if necessary) | | | | COMPLETE IF KNOWN | |
| | | | | Application Number | 1724,777 |
| | | | | Confirmation Number | 7668 |
| | | | | Filing Date | November 28, 2000 |
| | | | | First Named Inventor | Kenneth H. Abbott |
| | | | | Group Art Unit | 2173 |
| Examiner Name | | | | | |
| Attorney Docket No. | 29443-8019US1 | | | | |

OIPE JUN 03 2002
 1 of 1

RECEIVED JUN 05 2002

| U.S. PATENT DOCUMENTS | | | | | | Technology Center 2100 |
|-----------------------|----------|-----------------------------------|----------------------|--|--|--|
| Examiner Initials | Cite No. | U.S. Patent or Application | | Name of Patentee or Inventor of Cited Document | Date of Publication or Filing Date of Cited Document | Pages, Columns, Lines, Where Relevant Figures Appear |
| | | NUMBER | Kind Code (if known) | | | |
| TH | | Patent Application No. 09/724,799 | | Abbott et al. | 11/28/00 | |
| | | Patent Application No. 09/724,892 | | Abbott et al. | 11/28/00 | |
| | | Patent Application No. 09/724,893 | | Abbott et al. | 11/28/00 | |
| | | Patent Application No. 09/724,894 | | Abbott et al. | 11/28/00 | |
| | | Patent Application No. 09/724,902 | | Abbott et al. | 11/28/00 | |
| | | Patent Application No. 09/724,932 | | Abbott et al. | 11/28/00 | |
| | | Patent Application No. 09/724,949 | | Abbott et al. | 11/28/00 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|----------|-------------------------------|--------|----------------------|---|--|--|---|
| Examiner Initial | Cite No. | Foreign Patent or Application | | | Name of Patentee or Applicant of Cited Document | Date of Publication or Filing Date of Cited Document | Pages, Columns, Lines, Where Relevant Figures Appear | T |
| | | Office | NUMBER | Kind Code (if known) | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | |
|--|-----------------------------|
| EXAMINER <i>Tadashi Harada</i> | DATE CONSIDERED 10/15/03 |
| *EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s). | |

Form 1449.doc

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A

Patent and Ti.

Approved for use through 10/31/99. OMB 0651-0031
Mark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(use as many sheets as necessary)**COMPLETE IF KNOWN**

| | | | |
|----------------------|-------------------|-----------|------|
| Application Number | 09/724,777 | Conf. No. | 7668 |
| Filing Date | November 28, 2000 | | |
| First Named Inventor | Kenneth H. Abbott | | |
| Group Art Unit | 2173 | | |
| Examiner Name | Unknown | | |
| Attorney Docket No. | 294438019US1 | | |

Sheet

1

of

3

U.S. PATENT DOCUMENTS

| EXAMINER INITIALS | | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document | Relevant Figures Appear |
|----------------------|---|----------------------|-------------------------|--|--|-------------------------|
| | | NUMBER | Kind Code (if known) | | | |
| T4 | * | 4,916,441 | | Gombrich | 4/10/90 | |
| | * | 5,032,083 | | Friedman | 7/16/91 | |
| | * | 5,201,034 | | Matsuura et al. | 4/6/93 | |
| | * | 5,208,449 | | Eastman et al. | 5/4/93 | |
| | * | 5,214,757 | | Mauney et al. | 5/25/93 | |
| | * | 5,227,614 | | Danielson et al. | 7/13/93 | |
| | * | 5,335,276 | | Thompson et al. | 8/2/94 | |
| | * | 5,416,730 | | Lookofsky | 5/16/95 | |
| | * | 5,470,233 | | Fruelstem et al. | 11/28/95 | |
| | * | 5,493,692 | | Theimer et al. | 2/20/96 | |
| | * | 5,544,321 | | Theimer et al. | 8/6/96 | |
| | * | 5,555,376 | | Theimer et al. | 9/10/96 | |
| | * | 5,559,520 | | Barzegar et al. | 9/24/96 | |
| | * | 5,568,645 | | Morris et al. | 10/22/96 | |
| | * | 5,601,435 | | Qay | 2/11/97 | |
| | * | 5,603,054 | | Theimer et al. | 2/11/97 | |
| | * | 5,611,050 | | Theimer et al. | 3/11/97 | |
| | * | 5,642,303 | | Small et al. | 6/24/97 | |
| | * | 5,646,629 | | Loomis et al. | 7/8/97 | |
| | * | 5,719,744 | | Jenkins et al. | 2/17/98 | |
| | * | 5,726,660 | | Purdy et al. | 3/10/98 | |
| | * | 5,751,260 | | Nappi et al. | 5/12/98 | |
| | * | 5,781,913 | | Felsenstein et al. | 7/14/98 | |
| | * | 5,790,974 | | Tognazzini | 8/4/98 | |
| | * | 5,798,733 | | Ethridge | 8/25/98 | |
| | * | 5,812,865 | | Theimer et al. | 9/22/98 | |
| | * | 5,873,070 | | Burke et al. | 2/16/99 | |
| | * | 5,878,274 | | Kono et al. | 3/2/99 | |
| | * | 5,902,347 | | Backman et al. | 3/11/99 | |
| | * | 5,910,799 | | Carpenter et al. | 6/8/99 | |
| | * | 5,938,721 | | Dussell et al. | 8/17/99 | |
| | * | 5,948,041 | | Abo et al. | 9/7/99 | |
| | * | 5,959,611 | | Smalingio et al. | 9/28/99 | |
| | * | 5,991,687 | | Hale et al. | 11/23/99 | |
| | * | 6,014,638 | | Burge et al. | 1/11/00 | |
| | * | 6,047,301 | | Bjorklund et al. | 4/4/00 | |
| | * | 6,064,943 | | Clark, Jr. et al. | 5/16/00 | |
| | * | 6,108,197 | | Janik | 8/22/00 | |
| | * | 6,127,990 | | Zwernu | 8/3/00 | |

EXAMINER

DATE CONSIDERED

*Tadema Hal**10/15/03*

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

Q:\Client\Tangis (29443)\8019 - CM pull mode\US01 - non-provisional\SB08.doc

PAGE 3/5 * RCVD AT 9/13/2004 4:29:56 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/1 * DNIS:8729306 * CSID:1 206 682 8031 * DURATION (mm-ss):02-10

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

| | | | | | | | |
|--|-------------------------------|----|---|--------------------------|-------------------|--|------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | COMPLETE IF KNOWN | | | |
| | | | | Application Number | 09/724,777 | Cont. No. | 7668 |
| | | | | Filing Date | November 28, 2004 | <div style="border: 1px solid black; padding: 5px; text-align: center;"> RECEIVED MAY 24 2007 </div> | |
| | | | | First Named Inventor | Kenneth H. Abbot | | |
| | | | | Group Art Unit | 2173 | | |
| | | | | Examiner Name | Unknown | | |
| Attorney Docket No. | 29443R019US Technology Center | | | | | | |
| Sheet | 2 | of | 3 | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|---|-------------------------|---------------|-------------------------|--|--|---|---|
| *EXAMINER INITIALS | | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
| | | Office | Number | Kind Code (if known) | | | | |
| | * | EPO | EP 0823 813A2 | | Kopia Corporation | 2/11/98 | | |
| | | JPO | 05260188 | | Matsushita Electric Ind. Co. Ltd. | 10/8/93 | Abstract Only | |
| | | JPO | 09091112 | | Toshiba Corp. | 4/4/97 | Abstract Only | |
| | * | PCT | WO 90/08361 | | The Scott Felter Company | 7/26/90 | | |
| | * | PCT | WO 97/03434 | | Virtual I/O, Inc. | 1/30/97 | | |

| OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS | | | | | | | | |
|---|----|---|--|--|--|--|--|---|
| *EXAMINER INITIALS | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published. | | | | | | T |
| TH | * | "Affective Understanding: Modeling and Responding to User Affect," http://www.media.mit.edu/affect/AC_research/understanding.html , pp. 1-3 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "Alps GlidePoint," http://www.alps.com/p17.html , p. 1 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "GyroPoint Technology," http://www.gyration.com/html/gyropoint.html , pp. 1-3 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "Haptics," http://www.ai.mit.edu/projects/handarm-haptics/haptics.html , pp. 1-2 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "Research Areas in Affective Computing," http://www.media.mit.edu/affect/ , p. 1 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "Research on Affective Pattern Recognition and Modeling," http://www.media.mit.edu/affect/AC_research/recognizing.html , pp. 1-4 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "Research on Sensing Human Affect," http://www.media.mit.edu/affect/AC_research/sensing.html , pp. 1-5 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "Smart Rooms," http://vismod.www.media.mit.edu/vismod/demos/smartrooms/ , pp. 1-3 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "SmartDesk Home Page," http://vismod.www.media.mit.edu/vismod/demos/smartdesk/ , pp. 1-4 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "The MIT Wearable Computing Web Page," http://wearables.www.media.mit.edu/projects/wearables/ , pp. 1-3 [Accessed 2 Oct 1998]. | | | | | | |
| | * | "Wearable Computer Systems for Affective Computing," http://www.media.mit.edu/affect/AC_research/wearables.html , pp. 1-5 [Accessed 2 Oct 1998]. | | | | | | |
| | ** | Aoki, Hisashi et al., "Realtime Personal Positioning System for a Wearable Computer," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | | | | |
| | * | Bauer et al., "A Collaborative Wearable System with Remote Sensing," University of Oregon, February 1996 | | | | | | |
| | * | Billinghurst, Mark and Thad Starner, "New Ways to Manage Information," <i>IEEE</i> , pp. 57-64, January 1999. | | | | | | |
| | ** | Bovickill, J. et al., "Wearable Location Mediated Telecommunications: A First Step Towards Contextual Communication," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | | | | |
| | ** | Dey, Anind K. et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | | | | |
| | * | Finger et al., "Rapid Design and Manufacture of Wearable Computers," <i>Communication of the ACM</i> , Vol. 39, No. 2, February 1996, pp. 63-68 | | | | | | |
| | ** | Golding, Andrew and Neal Leach, "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | | | | |
| | * | Holl et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997). | | | | | | |
| | * | Kirch, Dana, "The Sentic Mouse: A tool for measuring emotional valence," http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html , pp. 1-2 [Accessed 2 Oct 1998]. | | | | | | |
| | * | Kortuem et al., "Context-Aware, Adaptive Wearable Computers as Remote Interfaces to Intelligent Environments," University of Oregon, October 1998 | | | | | | |
| | ** | Kortuem, Gerd, "When Cyborgs Meet: Building Communities of Cooperating Wearable Agents," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | | | | |
| EXAMINER | | DATE CONSIDERED | | | | | | |
| Taddeo/Hall | | 10/15/03 | | | | | | |
| * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s). | | | | | | | | |

Q:\Clients\Taegis (29443)\8019 - CM pull mode\US01 - non-provisional\SB08.doc

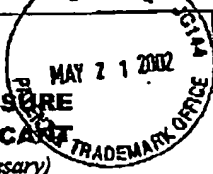
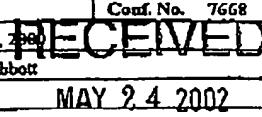
PAGE 4/5 * RCVD AT 9/13/2004 4:29:56 PM [Eastern Daylight Time] * SVR:USPTO-EFXXF-1/1 * DNIS:8729306 * CSID:1 206 682 6031 * DURATION (mm:ss):02:10

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A

proved for use through 10/31/99. OMB 0631-0031
Jk Office: U.S. DEPARTMENT OF COMMERCE

| | | | | | |
|---|-------------------|--|------|-----------------------------|--|
| Substitute for form 1449/PTO | |  | | Patent and Trademark Office | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | COMPLETE IF KNOWN | |
| Application Number | 09/724,777 | Conf. No. | 7668 | | |
| Filing Date | November 28, 1999 |  | | | |
| First Named Inventor | Kenneth H. Abbott | | | | |
| Group Art Unit | 2173 | | | | |
| Examiner Name | Unknown | | | | |
| Attorney Docket No. | 294438019 | Technology Center 2100 | | | |
| Sheet | 3 | of | 3 | | |
| OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS | | | | | |
| *EXAMINER INITIALS* | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published. | | | |
| TH | * | Lashkari, Yezdi et al., "Collaborative Interface Agents," Proceedings of AAAI 94 Conference, Seattle, Washington, August 1994 | | | |
| | ** | Lehikoinen, Juha et al., "MEX: A Distributed Software Architecture for Wearable Computers," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | |
| | ** | Leonardi, Alexander et al., "Virtual Information Towers - A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | |
| | * | Lunk, Teresa F. et al., "Knowledge-Based Intrusion Detection," Proceedings of the Annual Artificial Intelligence Systems in Government Conference, IEEE Comp. Soc. Press, Vol. Conf. 4, 1989, pages 102-107. | | | |
| | * | Mues, Pierre, "Agents That Reduce Work and Information Overload," Communications of the ACM, Vol. 37, No. 7, July 1994 | | | |
| | * | Munn, Steve, "Smart Clothing: Wearable Multimedia Computing and Personal Imaging to Restore the Technological Balance Between People and Their Environments," ACM Multimedia, November 1996, pp. 163-174 | | | |
| | * | Metz, Cade, "MIT: Wearable PCs, Electronic Ink, and Smart Rooms," PC Magazine, pp. 192-193, June 1998. | | | |
| | * | Oakes, Chris, "The Truman Show Realized?," http://www.wired.com/news/technology/story/15745.html , pp. 1-4 [Accessed 21 Oct 1998]. | | | |
| | * | Picard, R.W. and Healey, J., "Affective Wearables," Personal Technologies vol. 1: 231-240, MIT Media Laboratory (1997). | | | |
| | * | Rekimoto et al., "The World through the Computer: Computer Augmented Interaction with Real World Environments," ACM, November 1995, pp. 29-36 | | | |
| | * | Rhodes, Bradley, "WIMP Interface Considered Fatal," http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html , pp. 1-3 [Accessed 2 Oct 1998]. | | | |
| | * | Rhodes, Bradley, J., "The Wearable Remembrance Agent: A System for Augmented Memory," Proceedings of the 1 st International Symposium on Wearable Computers (ISWC 97), Cambridge, MA, October 13-14, 1997 | | | |
| | * | Sato, J. et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," Proceedings Computer Animation, June 5, 1997. | | | |
| | ** | Schneider, Jay and Jim Suruda, "Modeling Wearable Negotiation in an Opportunistic Task Oriented Domain," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999 | | | |
| | * | Smialagic et al., "Matching interface design with user tasks: Modalities of Interaction with CMU Wearable Computers," IEEE Personal Communications, February 1996, pp. 14-25 | | | |
| | ** | Smialagic, Asim et al., "MoCCA: A Mobile Communication and Computing Architecture," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | |
| | * | Starnes et al., "Visual Contextual Awareness in Wearable Computing," Media Lab, MIT, October 1998 | | | |
| | * | Tan, Hong Z. and Alex Pentland, "Tactical Displays for Wearable Computing," IEEE, Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997. | | | |
| | ** | Yang, Jie et al., "Smart Sight: A Tourist Assistant System," 3 rd International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999 | | | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| <i>Federick</i> | <i>10/15/03</i> |
| * EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s). | |

Q:\Clients\Tangis (29443)\8019 - CM pull mode\US01 - non-provisional\SB08.doc

PAGE 5/5 * RCVD AT 9/13/2004 4:29:56 PM [Eastern Daylight Time] * SVR:USPTO-EFXYR-1/1 * DNIS:8729306 * CSID:1 206 682 6031 * DURATION (mm:ss):02:10

BEST AVAILABLE COPY